

IN THE CLAIMS:

Please change "B" to -- T -- in claim 18 at the following locations: both formulas, and in the sixth (6th) paragraph, line 34.

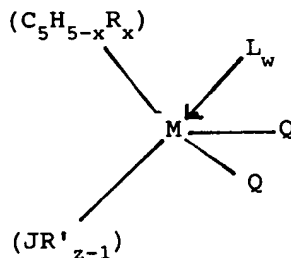
Claim 18, fifth (5th) paragraph, line 32, after "chelating agent" insert -- , provided that any Q is different from $(C_5H_{5-y-x}R_x)$ --.

Claim 24, lines 4-5, delete the phrase ", provided that where any Q is a hydrocarbyl such Q is different from $(C_5H_{4-x}R_x)$ ".

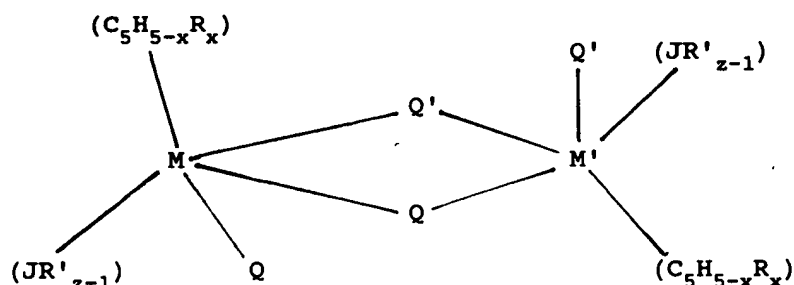
Please add the following claims:

-- 34. A process for the polymerization of one or more olefins comprising conducting the polymerization in the presence of a catalyst system comprising:

(A) a Group IV-B transition metal component of the formula:



or



wherein M is Zr, Hf or Ti;

(C₅H_{5-x}R_x) is a cyclopentadienyl ring which is substituted with from zero to five groups R, "x" is 0, 1, 2, 3, 4 or 5 denoting the degree of substitution, and each R is, independently, a radical selected from a group consisting of C₁-C₂₀ hydrocarbyl radicals, C₁-C₂₀ substituted hydrocarbyl radicals wherein one or more hydrogen atoms is replaced by a halogen atom, C₁-C₂₀ hydrocarbyl-substituted metalloid radicals wherein the metalloid is selected from the Group IV-A of the Periodic Table of Elements, and halogen radicals or (C₅H_{5-x}R_x) is a cyclopentadienyl ring in which two adjacent R-groups are joined forming a C₄-C₂₀ ring to give a saturated or unsaturated polycyclic cyclopentadienyl ligand;

(JR'_{z-1}) is a heteroatom ligand in which "J" is an element with a coordination number of three from Group V-A or an element with a coordination number of two from Group VI-A of the Periodic Table of Elements, each "R'" is, independently a radical selected from a group consisting of C₁-C₂₀ hydrocarbyl radicals, substituted C₁-C₂₀ hydrocarbyl radicals wherein one or more hydrogen atoms is replaced by a halogen atom, and "z" is the coordination number of the element "J";

each "Q" is, independently any univalent anionic ligand or two "Q"'s are a divalent anionic chelating ligand, provided that "Q" is different from (C₅H_{5-x}R_x);

"L" is a neutral Lewis base where "w" is a number greater than 0 and up to 3;

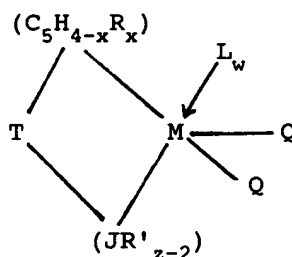
"M'" has the same meaning as "M";

"Q'" has the same meaning as "Q"; and

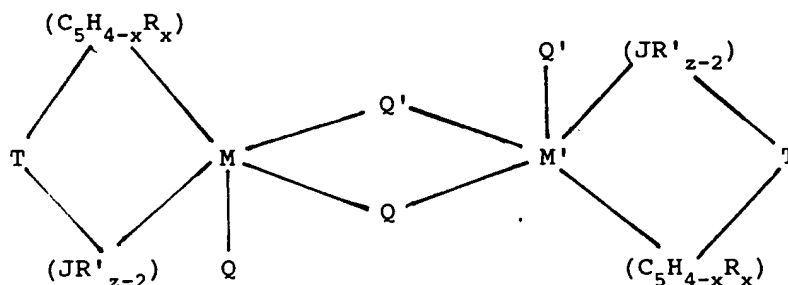
(B) an alumoxane. --

-- 35. A process for the polymerization of one or more olefins comprising conducting the polymerization in the presence of a catalyst system comprising:

(A) a Group IV-B transition metal component of the formula:



or



wherein "M" is Zr, Hf or Ti;

$(C_5H_{4-x}R_x)$ is a cyclopentadienyl ring which is substituted with from zero to four groups R, "x" is 0, 1, 2, 3 or 4 denoting the degree of substitution, and each substituent group "R" is, independently, a radical selected from a group consisting of C_1 - C_{20} hydrocarbyl radicals, C_1 - C_{20} substituted hydrocarbyl radicals wherein one or more hydrogen atoms is

replaced by a halogen atom, C_1-C_{20} hydrocarbyl-substituted metalloid radicals wherein the metalloid is selected from the Group IV-A of the Periodic Table of Elements, and halogen radicals or $(C_5H_{4-x}R_x)$ is a cyclopentadienyl ring in which two adjacent "R" groups are joined forming a C_4-C_{20} ring to give a saturated or unsaturated polycyclic cyclopentadienyl ligand;

(JR'_{z-2}) is a heteroatom ligand in which "J" is an element with a coordination number of three from Group V-A or an element with a coordination number of two from Group VI-A of the Periodic Table of Elements, "R'" is a radical selected from a group consisting of C_1-C_{20} hydrocarbyl radicals, substituted C_1-C_{20} hydrocarbyl radicals wherein one or more hydrogen atoms is replaced by a halogen atom, and "z" is the coordination number of the element "J";

each "Q" is, independently any univalent anionic ligand or two "Q"'s are a divalent anionic chelating ligand, provided that "Q" is different from $(C_5H_{4-x}R_x)$;

"T" is a covalent bridging group containing a Group IV-A or V-A element;

"L" is a neutral Lewis base where "w" is a number from 0 to 3;

"M'" has the same meaning as "M";

"Q'" has the same meaning as "Q"; and

(B) an alumoxane. --

-- 36. The process of either of claims 34 or 35 wherein the process is a liquid phase, high pressure fluid phase or gas phase. --